

Amendments to the Specification:

Please amend the specification as follows:

Please replace paragraph number [0053] with the following revised paragraph:

[0053] The term "GPCR or LGIC polynucleotide family" is intended to mean polynucleotides encoding polypeptides of a GPCR or LGIC family". The polynucleotides actually sequenced may be found and downloaded from Genbank or EMBL (see e. g. <http://www.ncbi.nih.org>).

Please replace Table 1 located between paragraph numbers [0064] and [0065] with the following revised table:

TABLE I Amine ligand receptors

(Taken from <http://www.gpcr.org>)

1. Amine ligand G-Protein Coupled Receptors of the Class A Rhodopsin like

Acetylcholine : Muscarinic acetylcholine receptors

Acetylcholine Vertebrate type 1

CHRM1

Acetylcholine Vertebrate type 2

CHRM2

Acetylcholine Vertebrate type 3

CHRM3

Acetylcholine Vertebrate type 4

CHRM4

Acetylcholine Vertebrate type 5

CHRM5

Adrenoceptors

Alpha Adrenoceptors

Alpha Adrenoceptors type 1

ADRA1A (=ADRA1C)

ADRA1B

ADRA1D

Alpha Adrenoceptors type 2

ADRA2C

Beta Adrenoceptors

Beta Adrenoceptors type 2

ADRB2

Dopamine

Dopamine Vertebrate type 1

Drd1a

Drd1b (Drd5)

Dopamine Vertebrate type 2

Drd2

Dopamine Vertebrate type 3

Drd3

Dopamine Vertebrate type 4

Drd4

Histamine

Histamine type 1

Hrh1

Histamine type 2

Hrh2

Histamine type 3

Hrh3

Histamine type 4

Hrh4

Serotonin

Serotonin Vertebrate type 1

Htr1a

Htr1b

Htr1d

Htr1e (Htr1f)

Serotonin Vertebrate type 2

Htr2a (=Htr2)

Htr2b

Htr2c (=Htr1c)

Serotonin Vertebrate type 4

Htr4

Serotonin Vertebrate type 5

Htr5a

Htr5b

Serotonin Vertebrate type 6

Htr6

Serotonin Vertebrate type 7

Htr7

Trace amine including Octopamine

TA1

TA2

TA3

TA4
TA6
TA7
TA8
TA9
TA10
TA11
TA12
TA13
TA14
TA15

2. Amine ligand LGIC receptors

Nicotinic acetylcholine receptors

Alpha nicotinic receptors

CHRNA2

CHRNA3

CHRNA4

CHRNA5

CHRNA7

Beta nicotinic receptors

CHRNA1

CHRNA2

CHRNA3

CHRNA4

Delta nicotinic receptors

CHRNA

Epsilon nicotinic receptors

CHRNA

5-Hydroxytryptamine (serotonin) receptor

Type 3

Htr3A

Htr3B

Please replace paragraph number [0067] with the following revised paragraph:

[0067] Due to the publication of the human genome, essentially all of the sequences for human receptors are known and publicly available, e.g. from public databases, such as the National Center for Biotechnology Information (NCBI) or the LocusLink web site (<http://www.ncbi.nlm.nih.gov/LocusLink/>). Here, information are provided about an official nomenclature, aliases, sequence accessions, phenotypes, EC numbers, MIM numbers, UniGene clusters, homology, map locations, and related web sites. For other mammary

animals many GPCR and LGIC sequences are known and information stored in the web site <http://www.gpcr.org/>. From these sequences, a skilled person may design appropriate capture probes for the specific detection of the gene nucleotide sequences.